FIG. 1

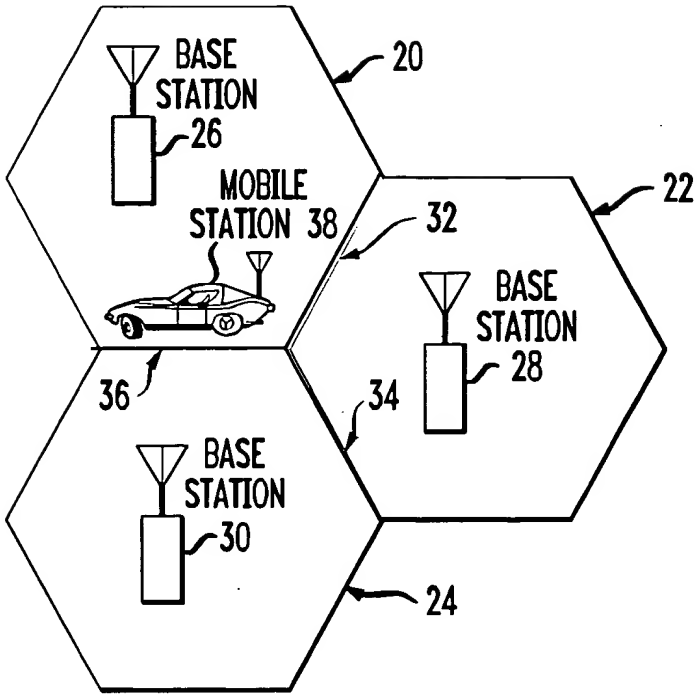

BASE STATION
26
20
MOBILE STATION 38
32
22
BASE STATION
28
36
34
BASE STATION
30
24

FIG. 2

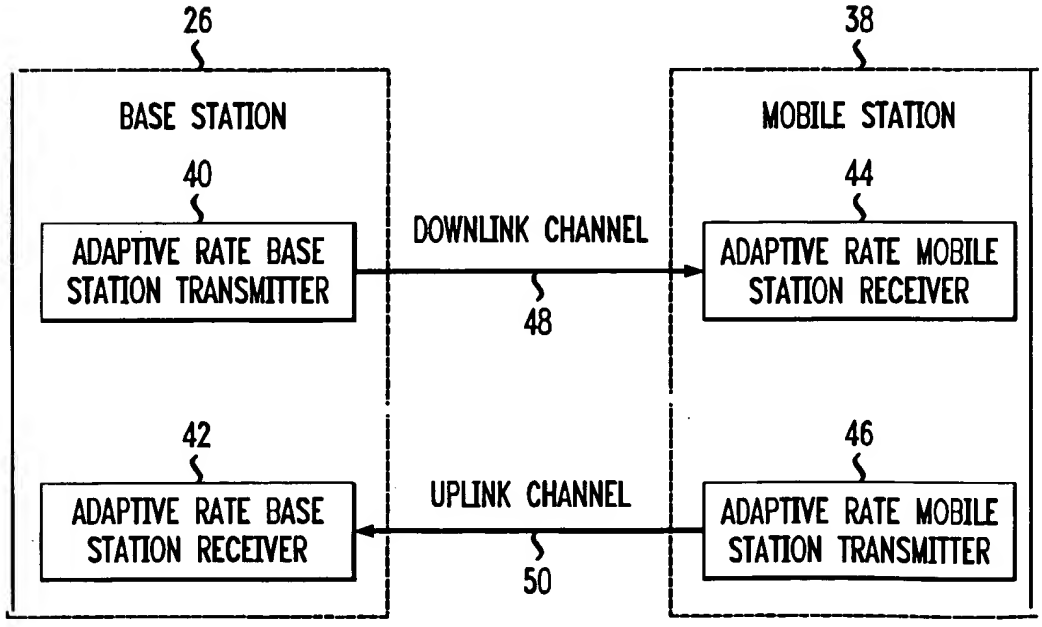

26
38
BASE STATION
MOBILE STATION
40
44
ADAPTIVE RATE BASE STATION TRANSMITTER
DOWNLINK CHANNEL
48
ADAPTIVE RATE MOBILE STATION RECEIVER
42
46
ADAPTIVE RATE BASE STATION RECEIVER
UPLINK CHANNEL
50
ADAPTIVE RATE MOBILE STATION TRANSMITTER

FIG. 3

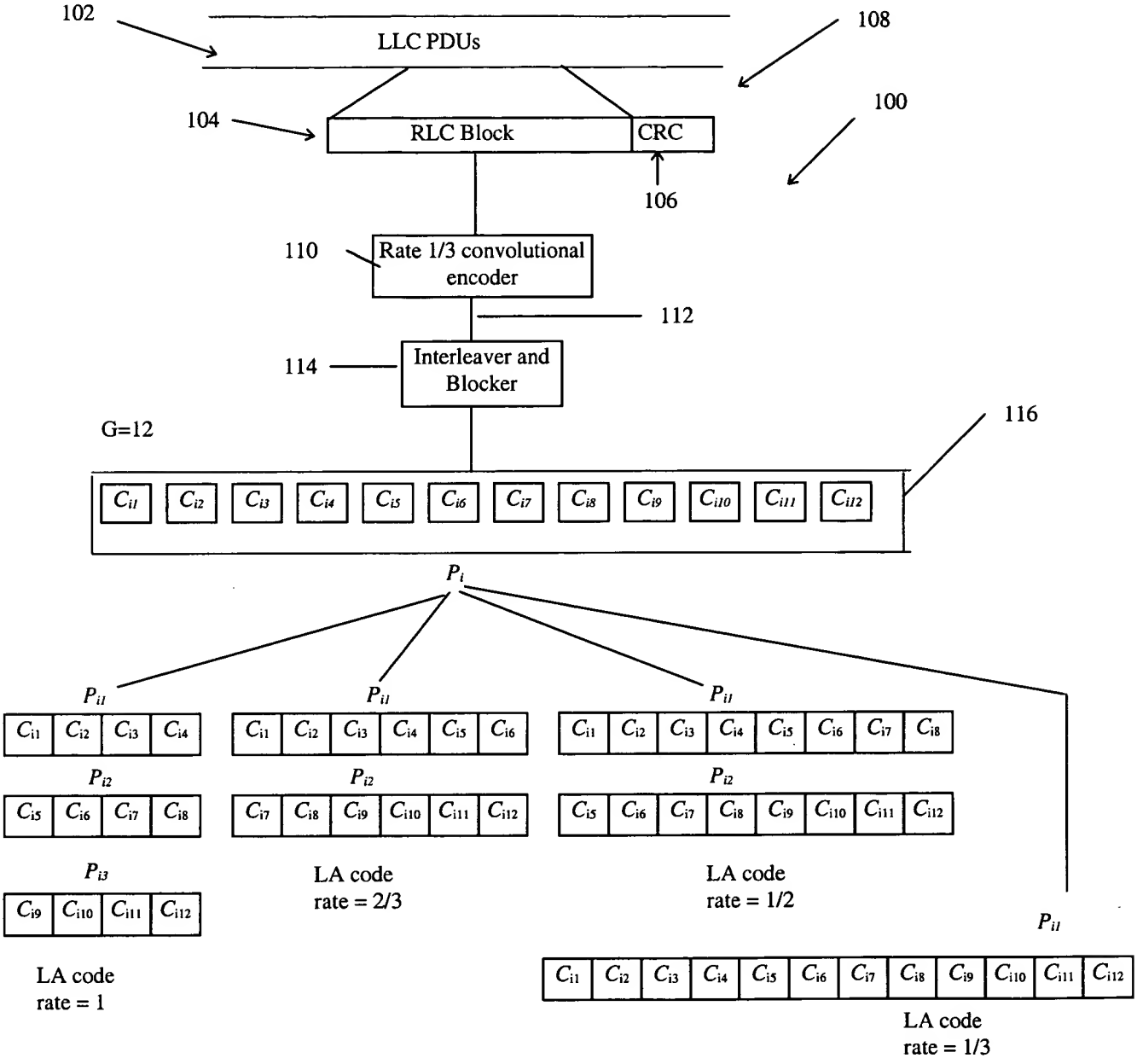

102
LLC PDUs
108
104
RLC Block
CRC
100
106
110
Rate 1/3 convolutional encoder
112
114
Interleaver and Blocker
G=12
116
C_{i1} C_{i2} C_{i3} C_{i4} C_{i5} C_{i6} C_{i7} C_{i8} C_{i9} C_{i10} C_{i11} C_{i12}
P_i
P_{i1}
P_{i2}
P_{i3}
LA code rate = 1
LA code rate = 2/3
LA code rate = 1/2
LA code rate = 1/3

FIG. 4

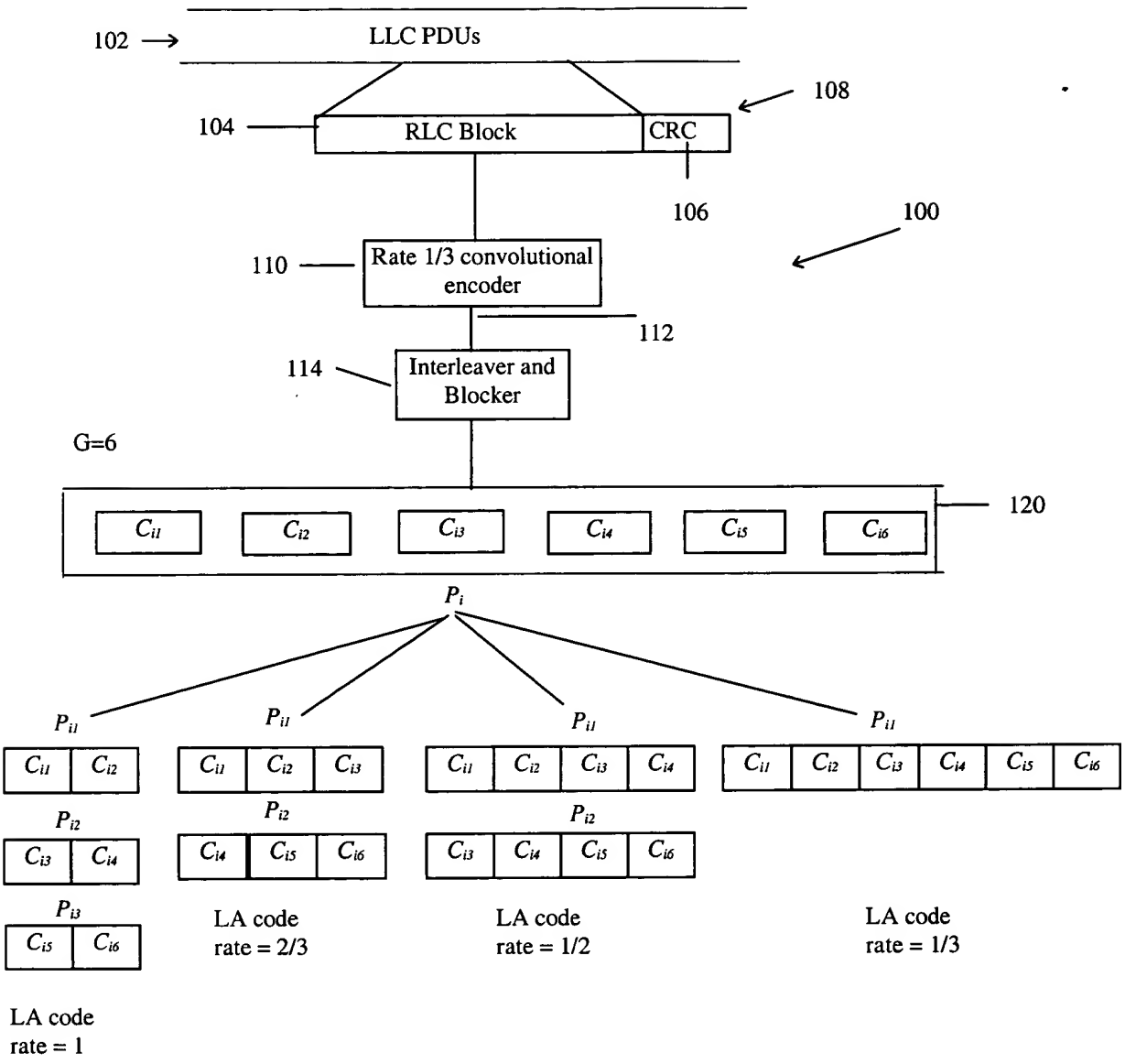

102
LLC PDUs
108
104
RLC Block
CRC
106
100
110
Rate 1/3 convolutional encoder
112
114
Interleaver and Blocker
G=6
120
C_{i1} C_{i2} C_{i3} C_{i4} C_{i5} C_{i6}
P_i
P_{i1}
P_{i2}
P_{i3}
LA code rate = 1
LA code rate = 2/3
LA code rate = 1/2
LA code rate = 1/3

FIG. 5

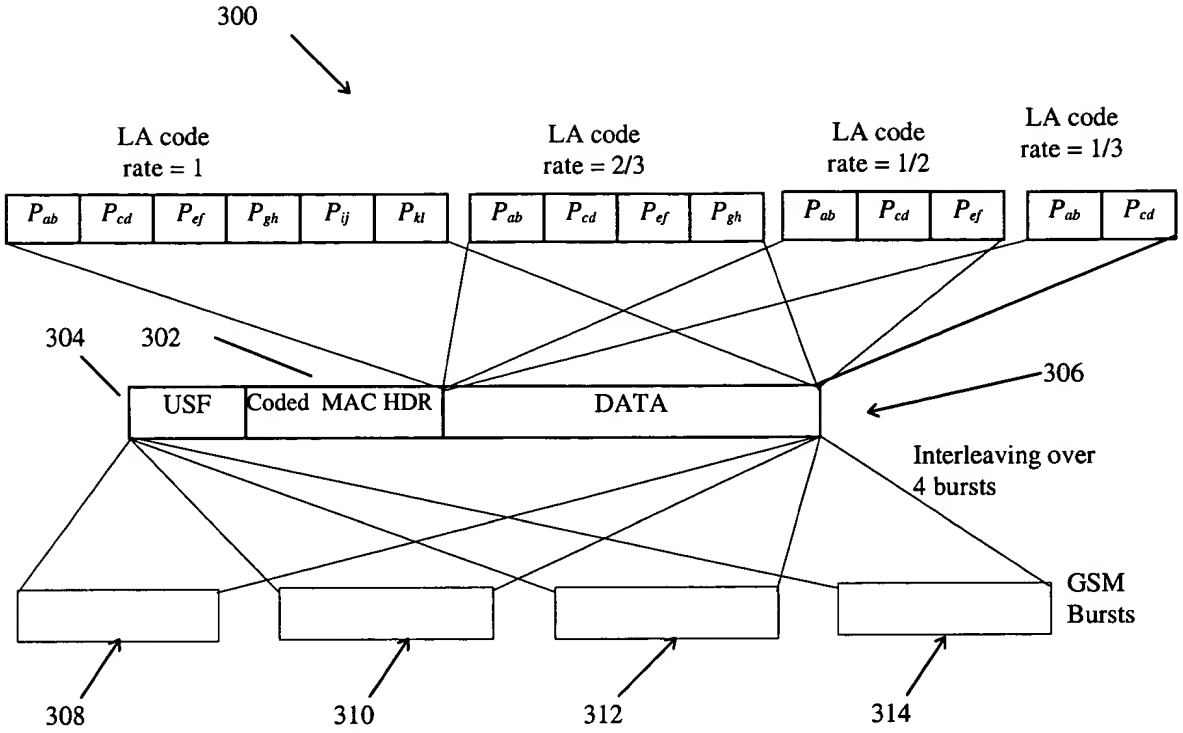

300
LA code rate = 1
LA code rate = 2/3
LA code rate = 1/2
LA code rate = 1/3
P_{ab} P_{cd} P_{ef} P_{gh} P_{ij} P_{kl}
P_{ab} P_{cd} P_{ef} P_{gh}
P_{ab} P_{cd} P_{ef}
P_{ab} P_{cd}
304
302
306
USF
Coded MAC HDR
DATA
Interleaving over 4 bursts
GSM Bursts
308
310
312
314

FIG. 6A

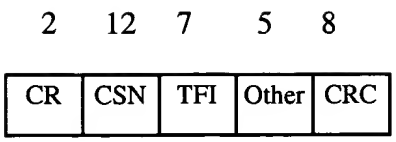

2 12 7 5 8
CR
CSN
TFI
Other
CRC

FIG. 6B

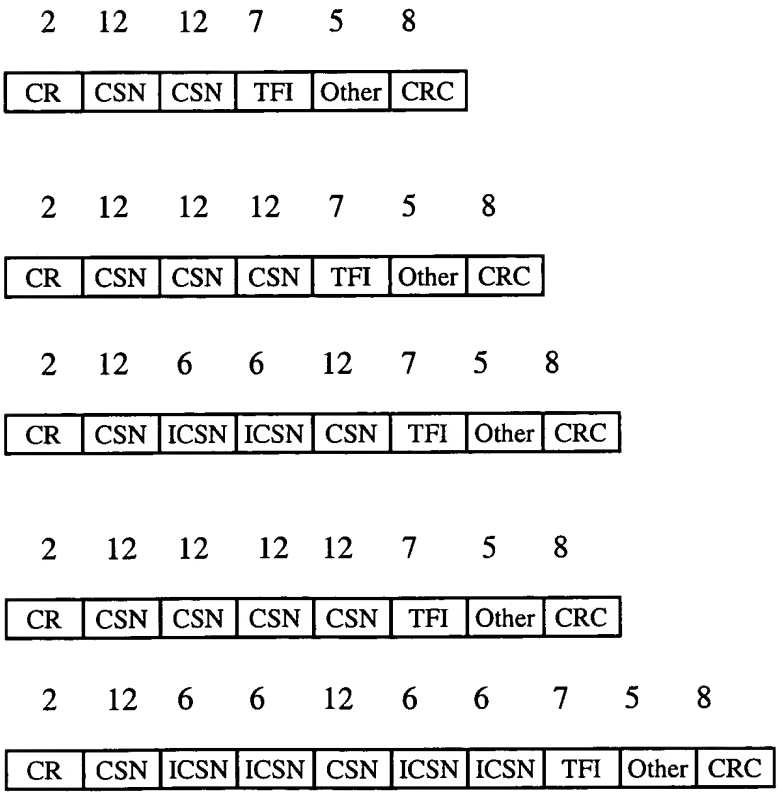
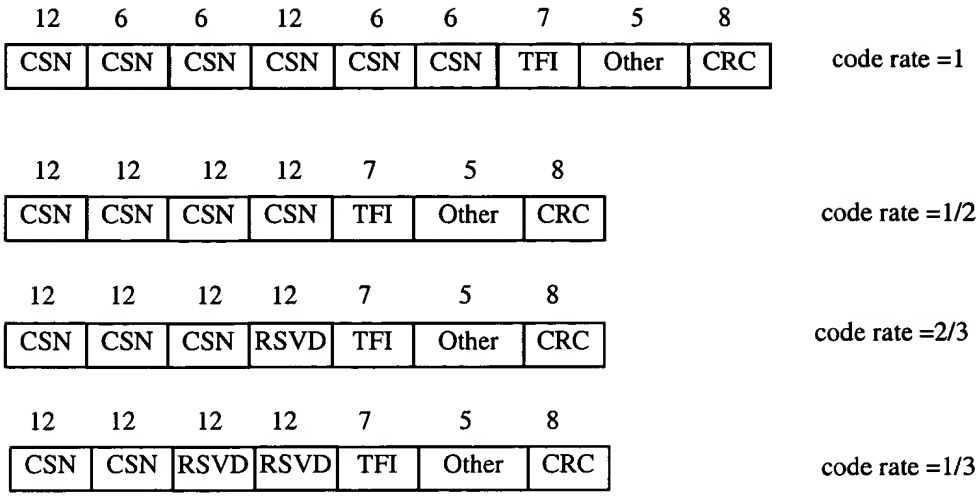

2 12 12 7 5 8
CR CSN CSN TFI Other CRC
2 12 12 12 7 5 8
CR CSN CSN CSN TFI Other CRC
2 12 6 6 12 7 5 8
CR CSN ICSN ICSN CSN TFI Other CRC
2 12 12 12 12 7 5 8
CR CSN CSN CSN CSN TFI Other CRC
2 12 6 6 12 6 6 7 5 8
CR CSN ICSN ICSN CSN ICSN ICSN TFI Other CRC

FIG. 7


12 6 6 12 6 6 7 5 8
CSN CSN CSN CSN CSN CSN TFI Other CRC
code rate =1
12 12 12 12 7 5 8
CSN CSN CSN CSN TFI Other CRC
code rate =1/2
12 12 12 12 7 5 8
CSN CSN CSN RSVD TFI Other CRC
code rate =2/3
12 12 12 12 7 5 8
CSN CSN RSVD RSVD TFI Other CRC
code rate =1/3